FOREIGN TECHNOLOGY DIVISION

PREFACE
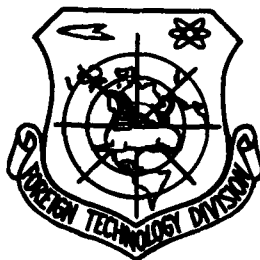
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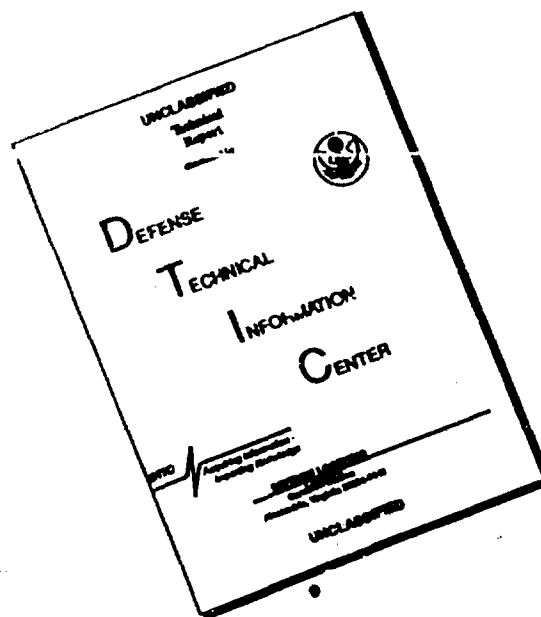
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PREFACE

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ABSTRACT

(U) The research and development of information services within the USSR, reported at the 3rd All-Union Conference on information retrieval systems and automated processing of scientific and technical information, is discussed. The Conference Transactions are in four volumes and cover information retrieval systems systems, semantic problems of automated data processing, automatic reading devices, and technical devices for the information service and on-line reproduction techniques.

U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block		Italic		Transliteration	Block		Italic		Transliteration
A	a	*A*	*a*	A, a	P	p	*P*	*p*	R, r
Б	б	*Б*	*б*	B, b	C	c	*C*	*c*	S, s
В	в	*В*	*в*	V, v	T	т	*T*	*m*	T, t
Г	г	*Г*	*г*	G, g	У	y	*У*	*y*	U, u
Д	д	*Д*	*д*	D, d	Ф	ф	*Ф*	*ф*	F, f
E	e	*E*	*e*	Ye, ye; E, e*	X	x	*X*	*x*	Kh, kh
Ж	ж	*Ж*	*ж*	Zh, zh	Ц	ц	*Ц*	*ц*	Ts, ts
З	з	*З*	*з*	Z, z	Ч	ч	*Ч*	*ч*	Ch, ch
И	и	*И*	*и*	I, i	Ш	ш	*Ш*	*ш*	Sh, sh
Й	й	*Й*	*й*	Y, y	Щ	щ	*Щ*	*щ*	Shch, shch
К	к	*К*	*к*	K, k	Ъ	ъ	*Ъ*	*ъ*	"
Л	л	*Л*	*л*	L, l	Ы	ы	*Ы*	*ы*	Y, y
М	м	*М*	*м*	M, m	Ь	ь	*Ь*	*ь*	'
Н	н	*Н*	*н*	N, n	Э	э	*Э*	*э*	E, e
О	о	*О*	*о*	O, o	Ю	ю	*Ю*	*ю*	Yu, yu
П	п	*П*	*п*	P, p	Я	я	*Я*	*я*	Ya, ya

* ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ё in Russian, transliterate as yё or ё.
The use of diacritical marks is preferred, but such marks
may be omitted when expediency dictates.

TRANSACTIONS OF THE III ALL-UNION CONFERENCE ON
INFORMATION RETRIEVAL SYSTEMS AND AUTOMATED
PROCESSING OF SCIENTIFIC AND TECHNICAL
INFORMATION

PREFACE

The Party and Government are giving their constant attention to
the development and improvement of systems of the information service.
The special resolution adopted by the Council of Ministers of the
USSR in November 1966 is directed towards implementing solutions to
the problems enacted by the XXIII Congress of the CPSU on creation
of government-wide highly effective scientific-technical information
service.

Being based on contemporary technical means for acquisition,
processing, investigation and delivery of information data, and
automation of information processes, the State system of scientific
information is directed to provide timely information about achieve-
ments in domestic and foreign science and technology.

At present in many organizations of the country scientific
research work is being conducted in the area of automation of
information processes. The level and state of this work require
defined organization and coordination. This is especially important
since scientific and technical information is such a many-faceted
branch of science and technology, embracing all branches of the
national economy, that its further effective development would be
inconceivable without coordination of the work and exchange of the
experience of all specialists occupied with automation of information
processes.

The Third All-Union Conference on information retrieval systems
and automated processing of scientific and technical information,
conducted from 19 through 22 December 1966 in Moscow, provided
results of scientific and technical information activity of scientists
and specialists and outlined the way for the fullest and fastest
fulfillment of problems set by the Party and Government in the area
of scientific and technical information.

The work of conference involved the participation of 1150
specialists representing different ministries, departments, information
organs, scientific research and design organizations, industrial
enterprises and establishments of the country. At the conference
220 reports were presented.

The present Transactions contain material presented at the
plenary sessions of conference, as well as at meetings of the
separate sections.

For the convenience of readers, the Transactions are being
issued in four volumes.

The first volume "Information retrieval systems" presents the
results of research and development in the areas: semantic systems
of investigation of scientific and technical literature in large
data bases, with automatic translation from a natural into a
formalized language; automated systems of factographic facilities
based on the use of information languages of the natural sciences;
information retrieval systems for industrial enterprises and
establishments.

The same volume is devoted to other questions connected with the
creation and introduction of automated information retrieval systems
of different classes and assignment for processing large as well
as small volumes of scientific and technical information.

The second volume, "Semiotic problems of automated data
processing" presents material dedicated to: development of problems

of the connection between syntactic and semantic properties of language systems; investigation of the natural and formalized languages of science and technology in connection with problems of storage and retrieval of information; questions of automatic processing of texts for creating operational systems of machine indexing, abstracting and translation of texts; research in the area of creation of special programming languages and translators from them for machine processing of texts.

The third volume, "Automatic reading devices" presents results of research and development of different methods and devices for automatic identification of typographical and typewritten symbols. Special attention is allotted here to automatic reading machines, allowing automated computer input of masses of scientific and technical, statistical and economic information.

The fourth volume, "Technical devices for the information service and on-line reproduction techniques" presents works related to research and development of: technical devices for preparation and input of alpha-numeric information into a computer and high speed output devices of textual information, and also output devices with many characters and high quality print; specialized memory units for information systems, possessing internal logic and the possibility of storage of large volumes of information, including photoscopic, associative, with internal logic; retrieval devices on continuous carriers (microfilms) and discrete carriers (microphoto cards, magnetic cards, etc.); technical means for mechanization and automation of all stages of information processes.

A considerable place in this volume is given to questions on organization of industry and improvement of technological processes on output of urgent information publications with wide application of methods of the classical printing industry and reproduction technology, the use of latest models of typesetting typewriters with stored control for manufacture of original mock-ups suitable for direct reproduction, application of xerographic, electronic equipment for urgent manufacture of printing forms, and also questions of the

use of high-speed cylinder and offset machines for printing informa-
tion.

Material is given on the use of highly productive brochure
equipment.